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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/277,575	03/27/1999	MARTHA KAREN NEWELL	V00139/70028	3748
7590 09/15/2004			EXAMINER VANDERVEGT, FRANCOIS P	
HELEN C LOCKHART WOLF GREENFIELD & SACKS 600 ATLANTIC AVENUE BOSTON, MA 02210				
			ART UNIT	PAPER NUMBER
			1644	
			DATE MAILED: 09/15/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/277,575	NEWELL, MARTHA KAREN				
		Examiner	Art Unit				
		F. Pierre VanderVegt	1644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	1) Responsive to communication(s) filed on <u>21 June 2004</u> .						
2a)⊠	This action is FINAL . 2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	Disposition of Claims						
4) 🖂)⊠ Claim(s) <u>1-4,8-13,39,44,143,144 and 147</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)🛛	5) Claim(s) 44 and 147 is/are allowed.						
-	. ,						
	7) Claim(s) 3, 4 and 8-12 is/are objected to.						
8)	Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correcti						
11)[_]	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of:							
•	1. Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment		o∏ · o	DTC 440)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (I Paper No(s)/Mail Dat					
3) 🗌 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa 6) Other:	tent Application (PTO-152)				

Application/Control Number: 09/277,575

Art Unit: 1644

DETAILED ACTION

This application claims the benefit of the filing date of provisional applications 60/082,250, 60/101,580 and 60/094,519.

Claims 5-7, 14-38, 40-43, 45-142, 145, 146 and 148 have been canceled.

Claims 1-4, 8-13, 39, 44, 143, 144, and 147 are currently pending and are the subject of examination in the present Office Action.

In view of Applicant's amendment filed June 21, 2004 only the following ground of rejection is maintained.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 1, 2, 13, 39, 143 and 144 stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

It was previously stated: :The burden of the written description requirement in this application for decreasing mitochondrial membrane potential in tumor cells by administering an MHC class II ligand to the cell to engage MHC class II on the surface of the cell in its broadest sense has not been met.

The written description in this case only sets forth tumor cells that express HLA-DR if those cells have been treated with "an MHC class II HLA-DR inducing agent." It is well known in the art that MHC class II antigens are selectively expressed on antigen presenting cells, however not all tumor cells are antigen presenting cells.

Vas-Cath Inc. v. Mahurkar ((CAFC, 1991) 19 USPQ2d 1111), clearly states that "Applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See Vas-Cath at page 1117). The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See Vas-Cath at page 1116).

Applicant is reminded that *Vas-Cath* makes clear that the written description provision of 35 USC 112 is severable from its enablement provision (see *Vas-Cath* at page 1115).

With the exception of tumor cells that express HLA-DR as the result of treatment with an MHC class II HLA-DR inducing agent the skilled artisan cannot envision the encompassed tumor

Application/Control Number: 09/277,575

Art Unit: 1644

cells. Adequate written description requires more than a mere statement that it is part of the invention. See *Fiers v. Revel*, ((CAFC, 1993) 25 USPQ 2d 1601) and *Amgen Inc. v. Chugai Pharmaceutical Co. Ltd.*, ((CAFC, 1991) 18 USPQ2d 1016)."

Applicant's arguments filed June 21, 2004 have been fully considered but they are not persuasive. Applicant asserts that the claimed invention is adequately because page 24 of the instant specification teaches that "[i]t is possible to lower membrane potential using an HLA-DR inducing agent." This point is not at issue because, as seen in the outstanding ground of rejection, this was recognized in the Office Action mailed December 19, 2003. However, Applicant goes on to alledge that "it is also taught in the specification that cells may already express HLA-DR on the surface if the membrane potential is low." Applicant did not specifically point to where in the specification this assertion is supported and such support cannot be found in a review of the specification as originally filed. Applicant goes on to assert that the specification sets forth examples of methods to identify the membrane potential of cells, but fails to disclose what "[o]ne of skill in the art would readily be able to identify" on page 5 of the response. Accordingly, the only embodiment of the claimed invention that is adequately described in the specification as originally filed is where mitochondrial membrane potential is reduced in tumor cells by administering an MHC class II ligand to the cell to engage MHC class II on the surface of the cell only if those cells have been treated with an MHC class II HLA-DR inducing agent.

Conclusion

- 2. Claims 44 and 147 are allowed.
- 3. Claims 3, 4 and 8-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 1644

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F. Pierre VanderVegt whose telephone number is (571) 272-0852. The examiner can normally be reached on M-Th 6:30-4:00; Alternate Fridays 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

F. Pierre VanderVegt, Ph.D. Patent Examiner September 8, 2004

Patri LNO Cen PATRICK J. NOLAN, PH.D. PRIMARY EXAMINER 9/9/04